

Willamalane District-Wide Natural Resource Areas Management Plan

Purpose:

- Provide guidance for management and use of Districtowned natural resource areas
- Define ecological communities and context
- Evaluate and prioritize resources





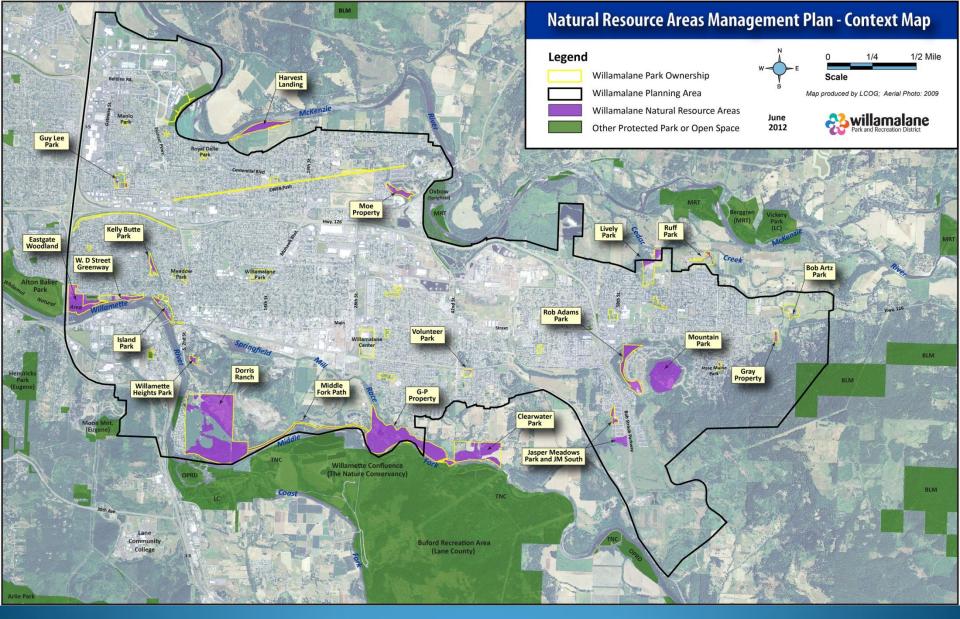




Natural Resource Area

- Willamalane owned and managed
- Valued and managed for natural resource function (e.g. habitats, water quality function, visual quality)
- Provides opportunities for naturebased recreation, education, and research.





Willamalane Natural Resource Areas

Willamalane: 43 parks, 783 acres

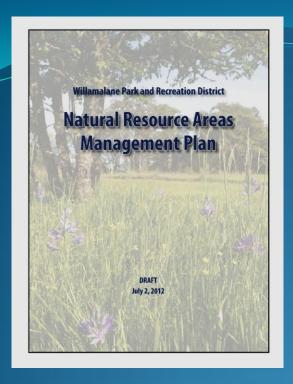
- -494 acres of natural resource area (18 parks)
- -Plus ~70 acres with Moe Property and Mountain Park

Task	D	J	Į.	M	Α	M	J.	J	Notes
I. Project Startup	11				···				
Develop work plan	1								Done
Present overview to Willamalane Board	✓								Done (Dec. 14)
Compile sample plans and assessment methods				9		e.			underway
Form TAC and Project Team									underway
				0		· U		2	
II. Research and Inventory									
 Review/summarize related plans and studies 									
Assess regional context (write description)				6	7	7			Get input from TAC
Develop/adopt assessment methodology									Get input from TAC
Adopt habitat classification system				•					Get input from TAC
Apply assessment methodology to sites		25							Verify scoring w/PT
Provide brief site summaries and index map									Work w/PT on summaries
III. Plan Development				147					
Develop goals and objectives					1				Brainstorm w/PT
Develop approach/outline for site specific MPs						g.	i i	2	
Develop decision making process									Brainstorm w/PT
Develop prioritization method									Get input from TAC
Prioritize NR sites				5				0	
Compile draft NRMP									Review by TAC/PT
				0					
IV. Input and Finalization of NRMP									
Post information on Willamalane web site									
Provide updates to interest groups		12							As needed
Compile input and incorporate into NRMP									
Produce final NRMP								•	
					e c				
Meetings									
Project Team (PT) Meeting		*		*	if needed	2		2	
TAC/Project Team Meeting			*				*	20.00	
Present Final NRMP to Willamalane Board								*	Overview of final plan
				. T	iii			No.	
Timolino									

Timeline







Plan Organization:

- **1.0** Background and Purpose
- **2.0** Ecological Setting and Regional Context
- 3.0 Natural Resource Areas Function and Value Assessment
- **4.0** Goals, Objectives, and Recommended Actions and Strategies
- **5.0** Management Planning Guidelines
- **6.0** Prioritization of Actions
- **7.0** Guidance for Future Natural Resource Areas Acquisition

2.0

Ecological Setting

Willamette
Valley
Ecoregion

Derived From:

- Oregon Conservation Strategy (ODFW)
- Ecoregional Assessment (TNC)
- South Ridgeline Habitat Study (Salix Associates)



(Oregon Conservation Strategy Classification)

Table 2-1: Habitat Types

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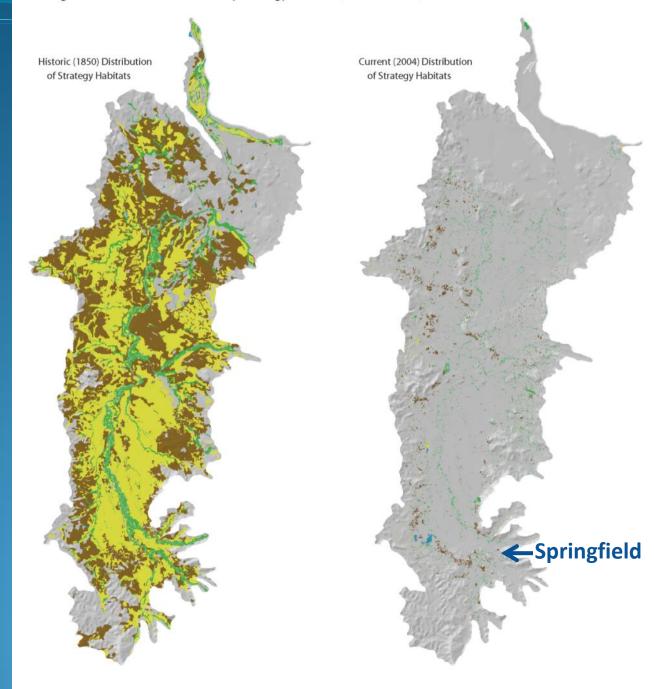
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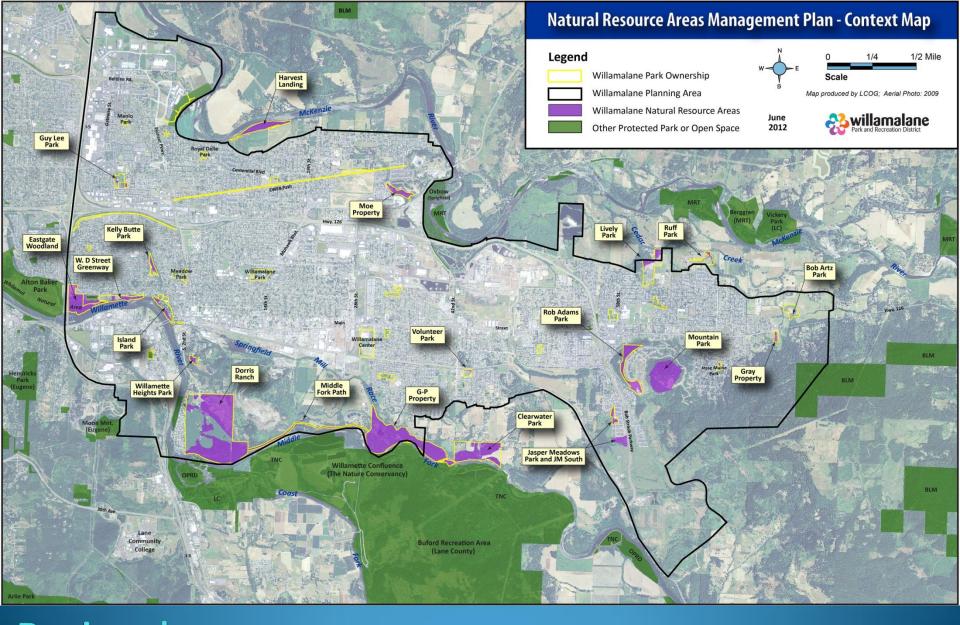
Habitat Type	Canopy	Description
Conifer Forest	71-100%	Forested areas associated with dry sites, with a minimum of 60% tree cover of coniferous species such as Douglas-fir. The understory typically consists of shade tolerant shrubs, ferns,
		and forbs.
Mixed Forest	71-100%	Forested areas associated with dry sites, with a mix of coniferous and deciduous trees (less than
		60% of either type) and a shade tolerant understory.
Hardwood	71-100%	Forested areas associated with dry sites, with a minimum of at least 60% tree cover of
Forest		deciduous species such as maple or oak. The understory typically consists of shade tolerant
		shrubs, ferns, and forbs.
Conifer	31-70%	Woodland area dominated by coniferous species such as Douglas-fir and ponderosa pine, with
Woodland		some openings in the canopy. The understory typically consists of a mix of shade and sun
		tolerant shrubs, ferns, grasses, and forbs.
Mixed	31-70%	Woodland area with a mix of conifers and deciduous trees (less than 60% of either type) and a
Woodland		mix of shade and sun tolerant understory species.
Oak Woodland	31-70%	Woodland area dominated by white or black oak with Douglas-fir, ponderosa pine, madrone,
		and maple often present. The understory typically consists of a mix of shade and sun tolerant
	0.4000/	shrubs, ferns, grasses, and forbs.
Riparian	0-100%	Riparian habitats are those adjacent to rivers and streams or occurring on nearby floodplains.
		Riparian habitats are shaped and maintained through seasonal flooding, scour, and soil
		deposition and vary from sparsely vegetated areas to cottonwood gallery forests due to flood
		dynamics. Typical vegetation includes willow, Douglas-fir, alder, maple, cottonwood, snowberry,
	C 200/	dogwood, spiraea, rushes, sedges, forbs and grasses.
Savanna	6-30%	Savannas are associated with dry sites and/or frequent pre-settlement fires, with widely
		scattered trees. Typical tree species include white and black oak, ponderosa pine, and Douglas- fir with understory similar to prairie or grassland, with some shrubs present. Succession in the
		absence of fire or mowing tends to favor increased shrub and tree dominance over time.
Wetland	31-100%	Wetland areas with tree cover present with a hydric soil tolerant understory of shrubs, grasses,
Forest/	31-100/0	forbs, sedges, and rushes. Oregon ash is the typical dominant tree species in these areas with
Woodland		Douglas-fir and willow often present. This category differs from riparian in that it is generally
Woodiana		found on perched seasonal water tables and is less prone to disturbance due to flooding.
Wetland	0-5%	Wet prairies and vernal pools historically covered large areas of the Willamette Valley and were
Prairie/	0.070	maintained by a combination of wetland soil hydrology and frequent burning. Wetland prairies
Vernal Pool		are dominated primarily by bunch grasses, rushes, and forbs and largely free of trees and
		shrubs. Vernal pools are characterized by freshwater inundation for much of the winter and
		spring, followed by dramatic lowering of the water table at the approach of summer. They are
		found in isolated small depressions with no inflow or outflow and typically dominated by annual
		forbs.
Upland	0-5%	Upland prairie/grassland occurs on well-drained soils and was maintained historically by
Prairie/		frequent burning. Dominant native vegetation is perennial bunchgrasses with abundant and
Grassland		diverse forbs. Much of this habitat has been lost in the Willamette Valley and most remaining
		habitats have lost native diversity and are often dominated by non-native grasses.
Herbaceous	0-5%	Herbaceous balds and bluffs occur in the driest environmental settings within the Willamette
Balds and		Valley: generally south- to west-facing slopes on shallow or sandy/gravelly soils. They typically
Bluffs		occur as isolated sites within a forest matrix, on steep slopes, rocky areas, or cliff faces.
		Vegetation is dominated by perennial bunchgrasses, forbs, ferns, lichens, and mosses. Scattered
		trees and shrubs may be present.
Aquatic	0-5%	Freshwater aquatic habitats including rivers, streams, ponds, and marshes with water typically
		present throughout the year with aquatic and wetland vegetation present.

Ecological Setting Oregon Conservation Strategy



Change in Extent of Willamette Valley Strategy Habitats (1850 to 2004)





Regional Context

Middle Fork Willamette River

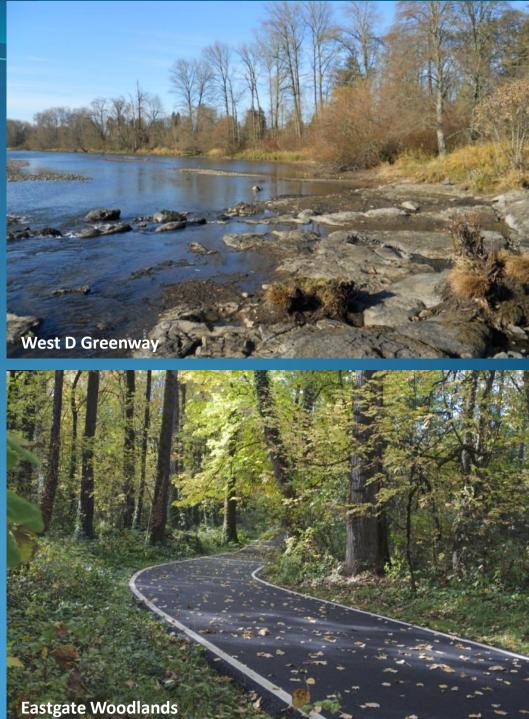
Main Stem Willamette River

McKenzie River Other Dispersed

A mix of habitat types

Riparian









Savanna, Prairie, Oak Woodlands









3.0 Natural Resource Areas Function and Value Assessment

What makes
the natural
resource area
valuable from
a Willamalane
perspective?

Table 3-1: Natural Resource Areas Function and Value Assessment Categories

IV. Potential for Improvement of Natural Resource Area Function

Potential for habitat restoration or enhancement activities

Potential for recreation, education, or trails improvements

Potential for water quality related improvements

I. Habitat Values	Possible Points
a. Size of natural area	0-3
b. Native vegetation cover	0-3
c. Habitat diversity (one point/type)	0+
d. Rare habitats	0 or 2
e. Rare plant or animal species present	0 or 2
f. Contiguity with other natural areas (based on size of adj. area)	0-4
II. Public Use and Visibility	Possible Points
a. Nature-based recreation (passive)	0-3
b. Educational use	0-3
c. Visibility and scenic value	0-3
d. Access and presence of trails	0-3
e. User experience	0-3
III. Ecosystem Services	Possible Points
a. Presence and permanence of water on site	0-3
b. Surface water quality function	0-3
c. Drinking water protection	0-4
d. Floodplain function	0-4

Possible Points

0 - 4

0-3

0-3

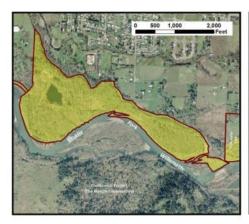
Natural Resource Area Descriptions and Assessment Scores

Method:

- Primarily Off-Site Assessment
- Aerial Photo Interpretation
- Existing Data
- Expert Knowledge (Willamalane Planning Team)

Georgia-Pacific Property (along the north side of the Middle Fork of the Willamette River)

The GP Property, which is primarily accessed by the public from the Middle Fork Path or the river, contains high quality riparian and aquatic habitats. The property is bordered by protected natural area on three sides.





Natural Resource Function and Value Assessment Scores

I. Habitat Values	Points	Notes					
a. Size of natural area	3	119.7 acres					
b. Native vegetation cover	2	Native vegetation dominant, but significant patches of non-native vegetation is present					
c. Habitat diversity (one point/type)	2	Riparian and aquatic (pond and Mill Race)					
d. Rare habitats	2	Riparian and aquatic					
e. Rare plant or animal species	2	Chinook Salmon, Western Pond Turtle, Bull Trout (OBIC); Oregon Chub noted in the Mill Race.					
f. Contiguity	3	Clearwater Park to east, Confluence property (TNC) to south					

II. Public Use and Visibility	Points	Notes
a. Nature-based recreation (passive)	3	Bicycling, walking, jogging/running, nature study, fishing, nature play
b. Educational use	1	Currently only passive educational uses
c. Visibility and scenic value	2	Middle Fork Path facilitates consistent use
d. Access and presence of trails	3	Middle Fork Path
e. User experience	3	Solitude, views to river and adjoining natural areas

III. Ecosystem Services	Points	Notes
a. Presence /permanence of water	3	Middle Fork Willamette River, Springfield Mill Race, pond
b. Surface water quality function	3	Mature riparian forest along majority of waterways
c. Drinking water protection	4	Within 1 year TOT from wellhead
d. Floodplain function	4	Approximately 68 acres within mapped 100-year floodplain

IV. Potential	Points	Notes						
a. Habitat restoration or enhancement	2	Riparian restoration and enhancement opportunities including riparian planting and invasive species control						
b. Increased public use and enjoyment	2	Potential for additional trails, interpretive signage, mountain bike skills park, and accessible fishing area on pond						
c. Water quality	1	Riparian planting opportunities in some areas along edge of pond, Middle Fork, and Mill Race						

	Area (Acres)		Cover (0-3)	ty (0+)	(0 or 2)	imals (0 or 2)		27 points possible)	recreation (0-3)	ie (0-3)	scenic value (0-3)	esence of trails (0-3)	ce (0-3)	Total (up to 15 points possible)	Presence/permanance of water (0-3)	WQ function (0-3)	protection (0-4)	ction (0-4)	Sub Total (up to 56 points possible)	I-III (56 points possible)	a. Habitat restoration/enhancemnt (0-4)	Recreation, education, trails (0-3)	related (0-3)	ints possible)	TOTAL: All Sections (66 points possible)
	Size of Natural A	a. Size (0-3)	b. Native veg. Co	c. Habitat diversity (0+)	d. Rare habitats (0 or	e. Rare plants/animals (0 or	f. Contiguity (0-4)	Sub Totals (up to	a. Nature based recreation (0-3)	b. Educational use (0-3)	c. Visibility and s	d. Access and presence	e. User Experience (0-3)	Sub Total (up to	a. Presence/per	b. Surface WQ fı	c. Drinking water protection	d. Floodplain function (0-4)	Sub Total (up to	TOTAL: Sections I-III (56 points	a. Habitat restor	b. Recreation, ed	c. Water quality related (0-3)	Sub Total (10 points possible)	TOTAL: All Secti
Natural Resource Area			1.1	Habita	at Valu	ies			11.	. Publi	c Use	and V	isibilit	ty	III.	Ecosy	stem	Servi	ces		1	V. Pot	entia		
Bob Artz Park	0.8	0	1	2	2	2	1	8	1	1	1	0	1	4	3	1	0	0	4	16	2	1	2	5	21
Clearwater Park	43.7	2	2	2	2	2	3	13	3	2	2	3	3	13	3	3	3	3	12	36	2	3	1	6	177
Dorris Ranch Living History Farm	173	3	2	6	2	2	3	18	3	3	3	2	3	14	3	3	0	4	10	42	2	3	1	6	48
Eastgate Woodlands	39.8	2	2	3	2	2	3	Y	3	2	3	3	3	14	3	3	0	3	5	5	2	1	1	4	
Georgia-Pacific Property	119.7	3	2	2	2	2	3	14	3	1	2	3	3	12	3	3	4	4	14	40	2	2	1	5	45
Gray Property	2.6	1	1	1	2	0	0	5	0	0	2	0	0	2	0	0	0	0	-	7	3	2	0	5	12
Guy Lee Park	1.7	0	1.5	2	2	0	0	5.5	1	2	2	2	1	8	2	1	1	1	5	18.5	2	2	1	5	23.5
Harvest Landing Natural Area	22.4	2	2	2	2	2	0	10	2	1	2	1	2	8	3	3	4	3	13	31	1	1	0	2	33
Island Park	5.8	1	2	2	2	2	3	12	3	2	3	3	2	13	3	2	0	3	8	33	2	2	1		38
Jasper Meadows Park/JM South	13.1	1	3	2	2	0	0	8	2	2	2	2	1	9	2	1	0	0	3	20	2	3	2	7	27
Kelly Butte Park	4.2	1	2	1	0	0	0	4	1	1	3	1	2	8	0	0	1	0	1	13	2	1	0	7	16
Lively Park	8.7	1	2	4	2	2	0	11	2	2	2	2	2	10	3	2	4	1	10	31	2	3	1	6	37
Middle Fork Path	15.3	2	2	1	2	2	3	12	3	1	3	3	3	13	3	3	4	3	13	38	1	1	0	2	40
Moe Property	11.1	1	2	4	2	0	0	9	0	0	3	0	2	5	3	2	1	0	6	20	2	3	1	6	26
Mountain Park	59.4	3	2	4	2	0	0	11	0	0	3	0	3	6	0	0	0	0	0	17	2	3	0	5	22
Rob Adams Park	25.5	2	2	3	2	0	1	10	1	1	2	2	1	7	1	2	0	0	3	20	1	1	0	2	22
Ruff Park	3.3	1	2	2	2	2	0	9	2	2	2	2	2	10	3	3	4	2	12	31	2	2	1	5	36
Volunteer Park	0.9	0	2	1	2	0	0	5	2	2	2	2	1	9	2	1	1	0	4	18	0	1	1	2	20
West D Street Greenway	10.0	3	2	2	2	2	3	14	3	1	3	3	3	13	3	2	0	2	7	34	1	1	0	2	36
Willamette Heights Park Overlook	3.1	1	2	2	2	0	0	7	1	1	1	0	2	5	0	0	0	0	0	12	2	1	0	3	15

Total Acres: 564.1 Ave: 25.8 Ave: 30.1

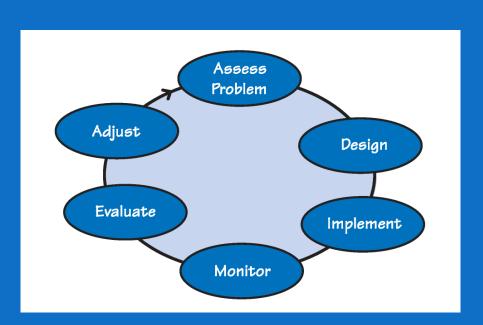
Function and Value Assessment Scores



5.0 Management Planning Guidelines

- Purpose (document, assess, specify management actions, enable adaptive management)
- Process (collaboration)
- Recommended Content
- Process for Addressing Unanticipated Issues and Conflicts

Adaptive Management Approach



6.0 Prioritization of Natural Resource Areas and Ongoing Management Actions

7.0 Guidance for Future Acquisition

Criteria for Acquisition:

- Proximity/Connectivity
- Recreational/Educational Use
- Habitat Value
- Willing Seller
- Cost Effectiveness
- Land Use Compatibility
- Comp Plan Guidance
- Available Funding
- Presence of Hazards

Table 6-1: Relative Ranking of Natural Resource Areas

Rank*	Natural Resource Area	Existing Score	Potential Score	Combined Score
		(of 56 points)	(of 10 points)	(of 66 points)
1	Dorris Ranch Living History Farm	42	6	48
2	Georgia-Pacific Property	40	5	45
3	Clearwater Park	38	6	44
4	Eastgate Woodlands	37	4	41
5	Middle Fork Path	38	2	40
6	Island Park	33	5	38
7	Lively Park	31	6	37
8	West D Street Greenway	34	2	36
9	Ruff Park	31	5	36
10	Harvest Landing Natural Area	31	3	33
11	Jasper Meadows Park/JM South	20	7	27
12	Moe Property	20	6	26
13	Guy Lee Park	18.5	5	23.5
14	Rob Adams Park	20	2	22
15	Mountain Park	17	5	22
16	Bob Artz Park	16	5	21
17	Volunteer Park	18	2	20
18	Kelly Butte Park	13	3	16
19	Willamette Heights Park	12	3	15
20	Gray Property	7	5	12

^{*}Rank is based on combined score

